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INTRODUCTION

19301B GSRS, Missile Numbers V-5/V-6, Round Numbers V-5/V-6, were launched from launcher 519 at LC-33, White Sands Missile Range (WSMR), New Mexico, at 0940/0941 HRS MST, 11 January 1978. The scheduled launch times were 0900/0901 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 mins.
- (2) Anemometer data were provided from existing pole mounted and tower mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

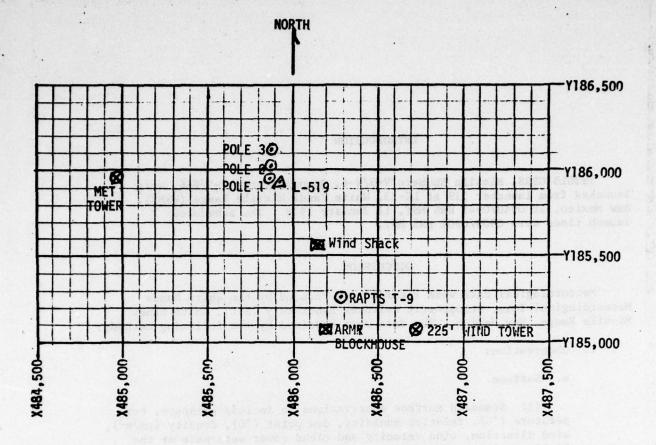
b. Upper Air

(1) Low level wind data were obtained from RAPTS-T-9 pibals observations at T-0 mins as follows:

SITE & ALT.

LC-33 900 meters (15 meter incs) APA 900 meters (30 meter incs) SMR 900 meters (30 meter incs)

(2) Air structure data (rawinsonde) were collected at the SMR Met Site at T-0 mins. Data were collected from surface to 125% of apogee in 100 meter incs.



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders in Wind Shack.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders in Wind Shack
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3,980.0	FEET/MSL
PRESSURE	882.9	MBS
TEMPERATURE	11.9	°C
RELATIVE HUMIDITY	58	%
DEW POINT	3.9	°C
DENSITY	1,074	GM/M ³
WIND SPEED	04	мрн
WIND DIRECTION	165	DEGREES
CLOUD COVER	8 1	Sc Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, 0943 HRS MST/11 JANUARY 1978

APPROXIMATED S (CLESS AGREE) OF CAMPACITORS

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	220	20	2100	259	43
100	212	22	2200	262	50
200	212	22	2300	261	44
300	232	27	2400	257	41
400	246	25	2500	251	43
500	252	26	2600	254	41
600	258	23	2700	251	41
700	258	31	2800	251	43
800	249	33	2900	253	43
900	246	33	3000	250	44
1000	240	31	3100	251	43
1100	244	30	3200	254	39
1200	240	36	3300	252	44
1300	241	35	3400	250	45
1400	249	35	3500	249	41
1500	249	35	3600	251	41 \
1600	252	32	3700	253	41
1700	251	37	3800	255	42
1800	245	41	3900	254	40
1900	258	43	4000	250	38
2000	249	42	4100	247	36

TABLE II. RAPTS-T-9 PILOT-BALLOON-MEASURED WIND DATA, SMR AT 0940 HRS MST/11 JANUARY 1978 19301B GSRS, MISSILE NOS. V-5/V-6, ROUND NOS. V-5/V-6

PIBAL RELEASE POINT WSTM COORDINATES:

X = 472,441.28 Y = 214,137.54 Z = 3,999.00

APPROXIMATELY: 8 MILES NORTH OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	248	39
4300	250	42
4400	247	34
4500	249	33
4600	246	37
4700	243	38
4800	247	37
4900	248	39
5000	254	37
5100	260	36
5200	262	35
5300	263	35
5400	264	33
5500	268	32
5600	274	29

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	274	28
5800	272	27
5900	272	27
6000	270	28
6100	279	30
6200	277	32
6300	282	29
6400	272	32
6500	282	30
6600	282	33
6700	285	31
6800	278	29
6900	274	29
7000	270	31

APPROXIMATELY: BIS FRET SES ON LASHOUSES.

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

PARAMETERS FOR THIS BRAZIST WALL

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	165	04
50	167	05
100	174	05
150	180	05
200	186	05
250	191	05
300	195	06
350	195	06
400	202	07
450	201	06
500	198	05
550	196	06
600	215	10
650	212	10
700	211	10
750	200	09
800	194	08
850	j83	08
900	171	07
950	175	07
1000	179	07

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
1050	214	01
1100	238	01
1150	199	05
1200	212	05
1250	236	04
1300	262	04
1350	259	03
1400	245	02
1450	223	02
1500	169	02
1550	189	03
1600	206	03
1650	216	05
1700	22,4	07
1750	229	08
1800	237	10
1850	246	12
1900	257	13
1950	266	13
2000	275	14
2050	275	14

TABLE III. RAPTS-T-9 PILOT-BALLOON-MEASURED WIND DATA, LC-33 AT 0941 HRS MST/11 JANUARY 1978 19301B GSRS, MISSILE NOS. V-5/V-6, ROUND NOS. V-5/V-6

PIBAL RELEASE POINT WSTM COORDINATES:

X = 484,982.64 Y = 185,957.73 Z = 3,983.0

APPROXIMATELY: 815 FEET SSE OF LAUNCHER.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	274	14
2150	276	14 00
2200	281	15
2250	282	15 00
2300	284	14
2350	283	14
2400	292	16
2450	289	13
2500	288	12
2550	288	12

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2600	287	12
2650	286	13 00
2700	286	13
2750	284	13
2800	284	12
2850	282	12
2900	280	12
2950	275	12
3000	269	11

ANADOMAI NO MINES NORTH OF LATERCHIEF

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	250	18
100	205	05 08
200	235	11 10
300	245	16
400	250	14
500	245	12
600	235	17
700	235	15
800	235	14
900	240	16
1000	245	17
1100	235	11
1200	240	16
1300	240	19
1400	255	21
1500	260	20

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
1600	270	19
1700	265	19
1800	265	18
1900	260	20
2000	260	22
2100	260	22
2200	260	25
2300	260	24
2400	260	23
2500	255	22
2600	255	19
2700	255	20
2800	260	. 19
2900	265	21
3000	255	20

TABLE IV. RAPTS-T-9 PILOT-BALLOON-MEASURED WIND DATA,
APACHE AT 1000 HRS MST/11 JANUARY 1978
19301B GSRS, MISSILE NOS. V-5/V-6, ROUND NOS. V-5/V-6

PIBAL RELEASE POINT WSTM COORDINATES:

X = 481,338.60 Y = 267,644.40 Z = 3,962.07

APPROXIMATELY: 16 MILES NORTH OF LAUNCHER.

T-TIME (SEC)	SPEED (MPH)	DIR
-30.0	04	198
-20.0	03	201
-10.0	03	202
-00.00	03	204
+10.00	01	198
+20.00	00	000
+30.00	03	198

TABLE V. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE 38.7 FT
LAUNCHED FROM LC-33/11 JANUARY 1978, AT 0941 MST
19301B GSRS, MISSILE NO. V-5, ROUND NO. V-5

WSTM COORDINATES: X = 485,874.29 Y = 185,958.90 Z = 4,018.74 (VANE)

THE RESERVE AND ADDRESS.	All the second tracking	
T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	04	198
-20.0	03	201
-10.0	03	202
-00.00	02	195
+10.00	02	195
+20.00	00	000
+30.00	01	213

TABLE VI. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE 38.7 FT RELEASED FROM LC-33/11 JANUARY 1978, AT 0943 MST 19301B GSRS, MISSILE NO. V-6, ROUND V-6

WSTM COORDINATES: X = 485,874.29 Y = 185,958.90 Z = 4,018.74 (VANE)

T-TIME (SEC)	SPEED (MPH)	DIR
-30.0	04	192
-20.0	06	200
-10.0	06	201
-00.00	06	201
+10.00	03	202
+20.00	02	207
+30.00	00	000

TABLE VII. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE 53.0 FT RELEASED FROM LC-33/11 JANUARY 1978, AT 0941 MST 19301B GSRS, MISSILE NO. V-5, ROUND NO. V-5

WSTM COORDINATES: X = 485,874.93 Y = 186,012.00 Z = 4,033.57 (VANE)

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	04	192
-20.0	06	200
-10.0	06	201
-00.00	03	192
+10.00	03	195
+20.00	02	244
+30.00	04	220

TABLE VIII. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE 53.0 FT
RELEASED FROM LC-33/11 JANUARY 1978, AT 0943 MST
19301B GSRS, MISSILE NO. V-6, ROUND NO. V-6

WSTM COORDINATES: X = 485,874.93 Y = 186,012.00 Z = 4,033.57 (VANE)

T-TIME (SEC)	SPEED (MPH)	DIR
-30.0	00	000
-20.0	02	209
-10.0	01	207
-00.00	01	204
+10.00	02	202
+20.00	02	202
+30.00	01	202

TABLE IX. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 62'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0941 MST
19301B GSRS, MISSILE NO. V-5, ROUND NO. V-5

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

T-TIME (SEC)	SPEED (MPH)	DIR
-30.0	00	000
-20.0	02	209
-10.0	01	207
-00.00	00	000
+10.00	00	000
+20.00	00	000
+30.00	00	000

TABLE X. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 62'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0943 MST
19301B GSRS, MISSILE NO. V-6, ROUND NO. V-6

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	05	200
-20.0	03	200
-10.0	02	200
-00.00	02	198
+10.00	03	198
+20.00	03	201
+30.00	02	202

TABLE XI. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 102'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0941 MST
19301B GSRS, MISSILE NO. V-5, ROUND NO. V-5

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	05	200
-20.0	03	200
-10.0	02	200
-00.00	00	000
+10.00	00	000
+20.00	00	000
+30.00	00	000

TABLE XII. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 102'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0943 MST
19301B GSRS, MISSILE NO. V-6, ROUND NO. V-6

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	05	213
-20.0	60 06	210
-10.0	00 06	210
-00.00	an 05	210
+10.00	05	210
+20.00	05	210
+30.00	06	210

TABLE XIII. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 202'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0941 MST
19301B GSRS, MISSILE NO. V-5, ROUND NO. V-5

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

T-TIME (SEC)	SPEED (MPH)	DIR DEG
-30.0	05	213
-20.0	06	210
-10.0	06	210
-00.00	06	210
+10.00	06	210
+20.00	05	210
+30.00	05	210

TABLE XIV. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, TOWER LEVEL 202'
RELEASED FROM LC-33/11 JANUARY 1978, AT 0943 MST
19301B GSRS, MISSILE NO. V-6, ROUND NO. V-6

WSTM COORDINATES: X = 484,982.64 Y = 185,957.73 Z = 3,983.00 (BASE)

11 JAN. 73 3943 4RS MST	STATION ALTITUD	3997.30 FEET MSL	
	11 JAN. 73	3943 4RS MST	

GNIFICANT LEVEL DATA 0113060003 S M R

TABLE XV.

GEODETIC COORDINATES 32.43)34 LAT 3ES 106.42307 LON DEG

PRESSURE	SEOMETR	TEMP	10	REL.HUM.
	ALTITU	414	IOUME	PERCENT
MILLIDARS	SL FEE	DEGREES	Z	
-	0	8.2	3.5	72.0
874.3	4180.9	9.5	-1.2	47.0
	1.494	6.3	-1.3	58.0
814.8	6077.4	3.6	-3.9	57.0
00.00	10051.3	1-4-	-12.1	51.0
46.3	12111.1	-9.5	-17.0	54.0
35.3	12505.4	-13.7	-191-	61.0
27.3	12863.9	-11.9	-14.6	
88.3	•	-15.4	-21.5	
50.2	16112.5	18.	-22.7	70.0
41.4		-19.5	20.	
518.3		22.	-28.9	53.0
0.00	18421.3	-22.3	36.	
85.3	19143.1	-24.2	-35.8	
~	20393.4	-27.5	-39.4	31.0

										U	L.	ַ	1	1	1	1	H			IL		I		l	J	It	1							
COORDINATE	46034 LAT DEG 42337 LOV 355	INDEX	0F	REF RACTION	.00328	2000	.00026	.33326	.00025	.03325	.00024	12000.	.00003	.03323	.00022	.00022	.00021	.00021	. 30321	.00023	.00323	.00023	.00019	.03919	.00019	.00018	.00018	.00018	000-	10000.	.00017	.00316	1.000164	91000.
GEODEFIC	106.	ATA	SPEED	STCNX	20.0	20.3	3	26.2	. 6	2.	3.	3.	3.	2.	:	0	8	;		3	1.	0.		*			1.	5	•	1.	:	5	3	3.
		O CNI	IRECT 10	Š		243.3		8		3.	2	1.	6	1.	3	2.	7.		1.		1.	0	5	;	-	;	•		. 9	8	•	1.	-	2
3 A I A		SPEED 07	SOUND	STCVX	2		5	51.	20	.64	48.	45.	45.	* * *	43.	4.5	40.	34.	36.	35.	34.	33.	31	67	28.	20.	25.	54	23.	25.	50.	13	17.	11
J11306333	S M R TABLE XVI.	NSITY	M/C	ETER	.990		067.	0	040	325.	.600	. +6	16.	. +9	49.	35.	21.	.10	93.	91.	68.	55.	43.	31.	14.	99.	93.	83.	67.	55.	43.	11.	50	0
		- T	PERCENT		V.	71.6	-	3	-	-	9	10	4	3	M	N	-	-	-	C	3	m	0	m	-	*	2	-	05.5	•	V	2	V	•
ET MSL	#ST	PER	DEMPOINT	CENTIGRADE		3.1			-2.6		6. 7	-5	-7.1	-8-2	-9.3	-10.4	-11.5	-12.5	-13.6	-14.7	-15.7	-15.3	-16.7	-15.2	-17.4	-19.5	-21.8	-22.3	-22.3	-22.5	-46.8	-27.3	-28.8	-32.4
H	0940 HRS	TEM	AIR	DESTEES	8.2	3.2				•	3.0				-1.0	-2.3	-3.0	-4.5	-5.5	-6.5	6-1-		-10.1	-15.2	-13.3	-1+++	-15.5	-15.4	-	-19.4	-19.0	1-53.1	-21.9	-22.1
TITJOE	NO. 3	PRESSURE		WILL 1847S	880.1	883.3	19			817.2	1:	;	:	157.3		729.3				675.3	061.9	1.640	036.4	0.23.3	011.5	. 6	587.5		564.1		41			5.19.3
ATION	11 JAN. 78 ASCENSION	GEOMETRIC	ALTITUDE	MSL FEET	3997.3	4300.0		2000.3																			:	5000	.00	60009	:	7000.	17500.0	8000°

UPPER AIR DATA	. £000900110	S. E. S.	TABLE XVI. (CONT)
	3997.33 FEET MSL	0940 HRS MST	•
	STATION ALTITUDE 3997.33 FEET MSL	11 JAN. 78	ASCENSION NO.

6E03ETIC COORDINATES 32-48034 LAT DEG 106-42337 LOV 9E3

TADEX	REFRACTION	1.000156	1,333151	1,000151	1.003119
T A	KNOTS	21.1			
AG CNIL	DIRECTION SPEED JEGREES(TN) KNOTS	272.2			
SPEED 0=	STCNA	616.3	615.1	671.4 613.6	61110
DENSITY	METER METER	643.9	082.3	671.4	663.3
REL. 1JM.	PERCENT	26.7	31.6	32.4	31.6
ERATURE	DEMPOINT CENTIGRADE	-36.8	-36.3	-36.8	-38.2
A D		-22.9	-23.3	-25.1	-25.5
PRESSURE	AIR WILLIBARS DESREES	448.5	483.2	478.1	458.1
GEONETRIC PRESSURE	ALTITUDE MSL FEET	16500.0	19300.3	19500.0	20000-0

15			
EET N	TONS	;	
30 F	TOM SOF CHOC		
3997	200		
STATAON ALTITUDE 3997-30 FEET MSL			
ALTI	7.3	ASCENSION NO.	
TAON	11 JAN. 72	ENSI	-
STA		ASC	

MANDATORY LEVELS
0110060003
S M R
TABLE XVII.

6EONETIC COORDINATES 32-43)34 LAT 3E3 106-42307 LON DEG

PRESSURE	GEOPOTENTIAL	TENF	ERATURE	REL.HUM.	U JNIN D	DATA	
		AIR	DEWPOINT	PERSENT	DIRECTION	SPEEJ	
MILLIBARS	FEET	DEGREES	DEGREES CENTIGRADE		DEGREES(TN) KNOT	KNOTS	
853.3		6.3	-1.3		247.8	25.8	
800.0	6564.	2.8	-5.0	56.	255.5	33.5	
759.3		5	-8.7	54.	262.3	31.8	
700.0		-4-1	-12.7	51.	269.7	0.97	
650.0		-3.1	1.01-	54.	203.4	23.7	
0.009		-14.3	-19.5	65.	284.2	19.9	
550.3		-18.5	-22.3	70.	295.9	18.2	
500.0		-22.8	-36.9	26.	212.4	22.0	